



Ground-driven

RAKE

DRYDEN IMPLEMENT, INC.
Dryden, N. Y.



John Deere 640 Rake

It's a heavy-duty, low-cost ground-driven rake with every feature you want for fast, clean, leaf-saving raking... smooth operation... and operator convenience.

Several years ago John Deere engineers began talking to farmers about rakes. They wanted to know which features farmers appreciated most . . . and what new features they would like to have in a rake. The engineers had ideas of their own. From the compiled lists came the John Deere 640 Rake . . . a rake that's second to none.

Leading off the list of features is something you can't even see on the 640 Rake. And that's the low price tag. For this low price you get a rake that's heavy-duty and precision-built from the

hitch right back to the wheels. You'll get gentle handling of the crop . . . at speeds up to 7 miles per hour. When it comes to clean raking, the 640 stands in a class by itself. Tooth spacing is variable. That's a John Deere exclusive! All operating adjustments can be made without tools. Servicing is held to a minimum. The rake requires greasing only once a cutting or every 100 hours, whichever comes first.

Read through the following pages for complete information on the 640 Rake. Then see your John Deere dealer. Ask him about the Credit Plan.



The John Deere 640 Rake is a heavy-duty, quality-built rake with a low price tag.



The wheels on the 640 Rake are set close to the reel. This permits the rake to follow ground contour closely.



Check these quality features

Four-bar, right-angle reel handles the crop less, saving valuable leaves

The reel-ends on the John Deere 640 Rake are set at a right angle to the direction of travel. The crop is, therefore, handled less because it is moved to the left with a minimum of forward movement. Reduced handling saves leaves.

The 4-bar reel is another leaf-saver. Fewer bars with more teeth per bar assure you of cleaner raking with less leaf-shattering "beating" of the crop. If you prefer a fifth tooth bar, it is available as special equipment.

Ground-driven reel — powered from both wheels — is synchronized with travel speed

Another guarantee of gentle, leaf-saving handling is provided by the ground-driven reel. It revolves in correct ratio to the speed of the tractor, forming windrows with minimum movement at slow and fast speeds alike.

For a more-positive drive, the reel is driven from both rear wheels. This assures continuous reel action even in soft or sandy conditions where a single-wheel drive could slip. You'll find this drive permits you to leave a continuous windrow even when making a sharp turn.



New Rubber-Ball-Joint Teeth – with heavier, stainless-steel tines – easily last at least seven times longer than coil-spring teeth

The new, heavy-duty Rubber-Ball-Joint Teeth are excellent examples of the quality construction in the John Deere 640 Rake. They last at least seven times longer than coil-spring teeth. Their stainless-steel tines are rust resistant. Rubber-Ball-Joint Teeth were a John Deere “first.” Stainless-steel tines in these teeth are a John Deere exclusive.

These teeth have 360-degree flexibility to permit them to flex over or around field obstructions. Their reflex action always returns them to their normal working position. Rubber-Ball-Joint Teeth hold breakage to a minimum . . . keep maintenance costs to a minimum, too.

Rubber-Ball-Joint Teeth are constructed of

steel and rubber to give them rugged strength . . . outstanding flexibility. The two steel sections of each tooth are tightly bonded in place within the rubber ball.

The rubber is hard enough to hold the teeth rigid . . . supple enough for give-and-take punishment. What’s more, the rubber is specially compounded to resist chipping, cracking, peeling, and damage caused by various weather elements.

Rubber-Ball-Joint Teeth save more nutritious leaves because they handle the crop gently and form windrows which shade the leaves from the sun’s rays. Their curved design enables them to reach under the swath and move it gently into loose, fluffy, evenly-curing windrows.

Complete tooth

Cutaway tooth



...more quality features of the John Deere 640 Rake...

Exclusive variable tooth spacing gives you a 4-bar rake with 72 or 108 teeth... a 5-bar rake with 90 or 135 teeth

The exclusive variable tooth-spacing feature on the John Deere 640 Rake enables you to match spacing to various crops and crop conditions. A 4-bar 640 can be equipped with 72 or 108 teeth . . . a 5-bar with 90 or 135 teeth. For normal raking the $4\frac{5}{8}$ -inch tooth spacing is used; for short, light crops the $2\frac{5}{16}$ -inch tooth spacing is recommended. High-strength tooth pipes are pre-drilled to accommodate the extra teeth . . . reel ends are pre-drilled to accommodate the fifth tooth bar.

The 640 moves all the hay in a 9-foot mower swath

Yes, sir, the 640 takes all the hay in a 9-foot mower swath and moves it into a uniformly curing windrow. It doesn't do as some rakes do — take the majority of a 9-foot swath and lay it in a windrow on top of the remainder of the swath. This slows curing on the bottom of the windrow . . . makes the windrow hard to pick up with the baler or forage harvester.

If the cutter-bar on your mower is less than 9-foot, don't let that scare you away from a 640 Rake. It's capable of handling narrower swaths with equal ease.



Wheels-close-to-reel design provides clean raking on rough ground and sidehills

Both wheels on the 640 Rake are tucked in close to the reel. This gives you clean raking in all ground conditions and on sidehills. Having both the wheels close to the reel enables them to gauge the reel closely to the contour of the ground.

Clearance has been allowed to permit you to use either 14- or 15-inch tires with the 640 Rake . . . as singles or duals.

Front gauge wheel gives you the maximum in clean raking

Team up the gauge wheel on the front with the wheels-close-to-reel design on the rear and you'll be able to rake unusually rough fields just as clean as a whistle. That's because the closer the wheels can be placed in front of and behind the reel, the better the reel follows the contour of the ground.

The front gauge wheel also minimizes tooth damage and overload on the drive since teeth seldom "dig in." Hay is also cleaner and of higher quality because stones and dirt aren't moved into the windrow as much. The front gauge wheel also makes the rake easier to hook up.



... more quality features of the John Deere 640 Rake ...

All operating adjustments are made without wrenches

You don't need a fist-full of tools to make the operating adjustments on this rake. Two hand cranks raise and lower the reel. The same cranks level the reel.

All you have to do to change tooth pitch is to remove a spring locking pin and relocate the retaining pin. Changing the pitch of the teeth makes it possible to vary the shape and density of windrows.

Reel clutch is controlled from the tractor seat

Through a rope control, you can engage and disengage the reel from the tractor seat. This feature is particularly handy when raking irrigated hay in fields with borders or ditches.

Drive is quickly disconnected for transporting. There's no danger of gears locking up.

A push-button coupler on the reel drive permits you to unhook the drive shaft from the axle. Disconnecting the drive prior to transporting the rake at high speeds eliminates the possibility of the drive slipping into operating position and tearing up the gearbox.



A rope control engages or disengages the reel.

Reel drive easily disconnected for transporting.



26 high-quality bearings keep the 640 Rake running smoothly and quietly

There are 26 bearings in the John Deere 640 Rake. The front reel-end runs on two needle bearings. Two tapered roller bearings in the gear case carry the rear reel-end and two more support the drive shaft. Each high-strength tooth bar has four tapered roller bearings. Axles run on four more tapered roller bearings. All of the tapered roller bearings are sealed. Bearings that require lubrication need to be greased only once a cutting or every 100 hours, whichever comes first.

Jackstand eliminates heavy lifting

There's no heavy lifting when hitching or unhitching the 640! With the handy parking jack you'll raise or lower the hitch to drawbar height for easy hookup . . . or raise the rake off the drawbar for easy unhitching.

A spring-loaded pin holds the jackstand in a raised position when operating the rake. The handle for the jackstand is stored in the pedestal column as shown below.



Specifications

(Specifications and design subject to change without notice)

640 Rake

Raking width Rakes all the hay in a 9-ft. mower swath

Operating speed Up to 7 mph

No. of tooth bars 4 (5 as special equipment)

No. of teeth:

4-bar rake 72 normal spacing
108 close spacing

5-bar rake 90 normal spacing
135 close spacing

Bearings:

Reel 2 needle bearings in front reel end
4 tapered roller bearings per tooth bar

Wheels 2 tapered roller bearings per rear wheel

Gear Case 4 tapered roller bearings

Weight (Approx.) 805 lb.
875 lb. with front gauge wheel

Height 45 in.

Length 127 in.

Width 120 in.

Tread width 65 in.

Rear tire size 5.90 x 15, 4-ply (14- or 15-in. wheel less tire also available)

Tire pressure 8 to 15 lb.

Gauge wheel tire size .. 5.90 x 15, 4-ply (14- or 15-in. wheel less tire also available)

Tire pressure 8 to 15 lb.

Special Equipment

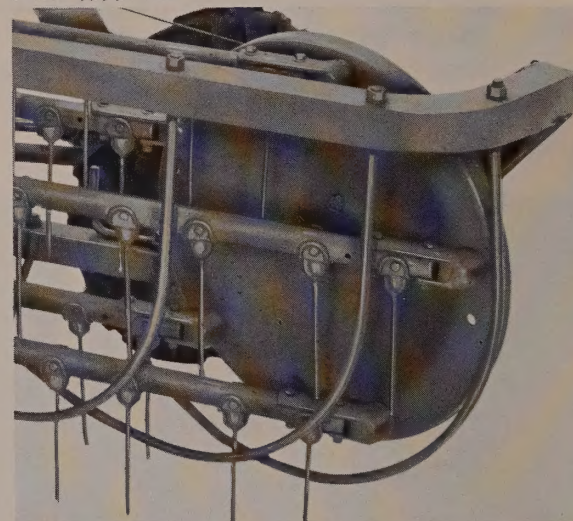
Fifth Tooth Bar

A fifth tooth bar is available if you prefer it. Reel ends are drilled and spaced to accommodate it. At normal tooth spacing, a 5-bar 640 has 90 teeth . . . 135 teeth with close spacing.

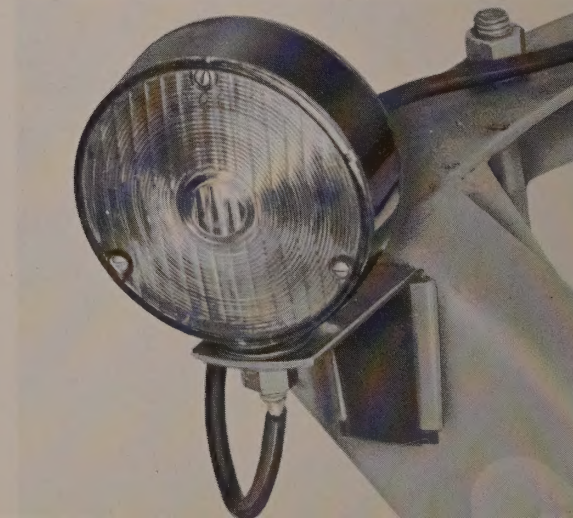
Warning Light

A safety warning light to be mounted on the end of the reel is available.

Fifth tooth bar



Warning light

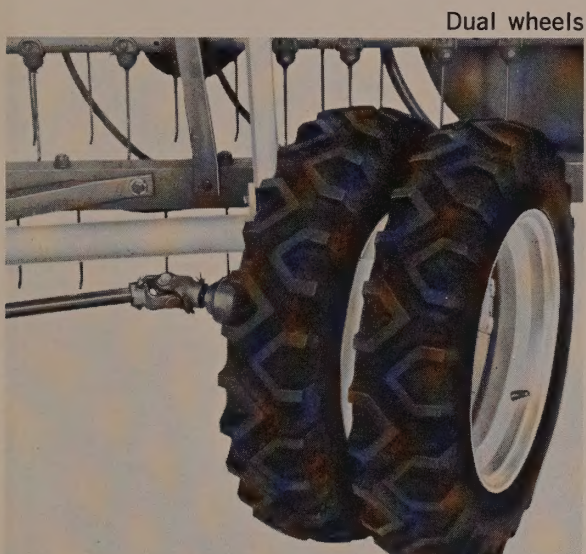


Dual Wheels

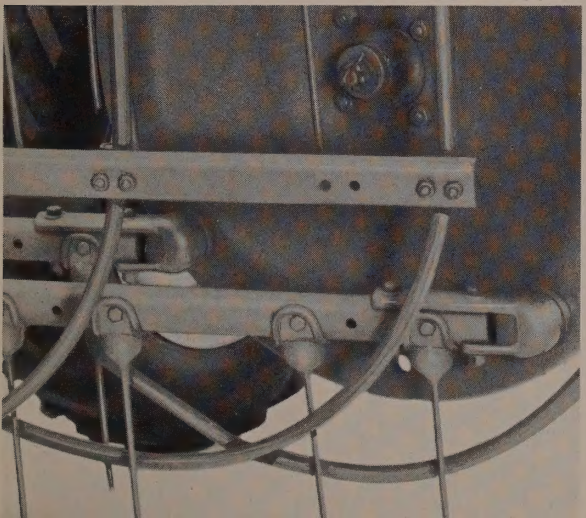
Dual-wheel equipment is available for operating in soft soil . . . irrigated or terraced fields . . . or in other conditions requiring increased flotation. For left, right, or both sides.

Stripper Support

For extra strength and rigidity when operating over extremely rough ground, a stripper support can be added in front of or behind the reel.



Dual wheels



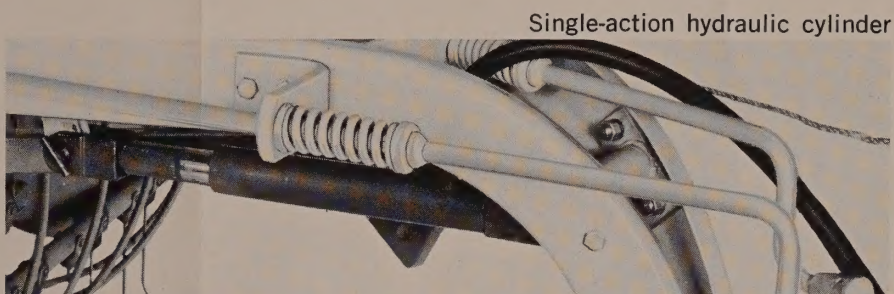
Stripper support

Single-Action Hydraulic Cylinder

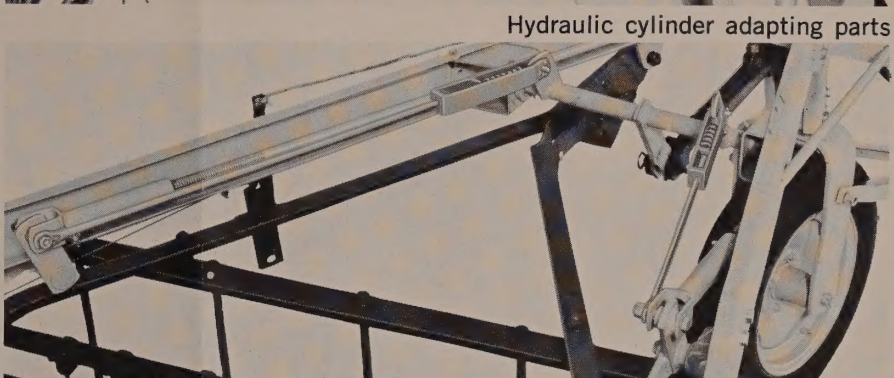
For fast, finger-tip control of reel height from the tractor seat, a single-action hydraulic cylinder is available. Single-action cylinder is lower in cost than double-action cylinder.

Hydraulic Cylinder Adapting Parts

These adapting parts permit you to use a single- or double-action hydraulic cylinder for raising and lowering the reel.



Single-action hydraulic cylinder



Hydraulic cylinder adapting parts

**Choose from The Long Green Line
of John Deere Hay and
Forage Equipment**





The 350-A Rake not only does a top-notch job in hay but also in peanuts.

John Deere 350-A Rake

It's a low-cost PTO-driven rake with 3-point-hitch or semi-integral mounting

The John Deere 350-A PTO Rake is low in cost . . . gentle in handling the crop, saving more feed-rich leaves . . . and dependable in the field, holding upkeep costs to a minimum.

The 350-A rakes a full 7-foot mower swath. It forms loose, airy, even-curing windrows at speeds up to $6\frac{1}{2}$ miles per hour. Its right-angle reel moves the crop to the left with less forward travel to save more leaves and small stems. Because of less bar contact, its 4-bar reel with teeth spaced closer together, rakes cleaner with less leaf loss.

Reel speed is easily controlled. It's simple to match the reel speed exactly to the volume of the crop

through different tractor gears and throttle settings. You'll do an excellent job in every crop and condition. Power is smoothly transmitted from the tractor power takeoff to the reel through a shielded V-belt drive.

The 350-A works with practically any tractor. If yours is a tractor with a standard 3-point-hitch, the 350-A is another pick-up-and-go implement for you. If your tractor is not equipped with a 3-point-hitch, choose the John Deere 350-A Rake in the semi-integral model.

See your dealer for complete details on the 350-A PTO-driven rake. Let the Credit Plan put a John Deere Rake on your farm.